WHAT IS CLAIMED IS:

1. A method for producing a digital model of a patient's dentition having an attached attachment device, said method comprising:

providing a digital model of a patient's dentition;

providing a digital model of an attachment device; and

combining the digital model of the attachment device on digital model of the patient's dentition to produce a digital model comprising the attachment device.

2. A method as in claim 1, wherein providing a digital model of the patient's dentition comprises scanning the patient's teeth.

3. A method as in claim 1, wherein providing a digital model of the patient's dentition comprises scanning a mold of the patient's teeth.

4. A method as in claim 1, further comprising modifying the digital model of the patient's dentition prior to combining the modified digital dentition model with the digital model of the attachment device.

5. A method as in any of claims 1 to 4, further comprising manufacturing an appliance comprising a polymeric shell which conforms to the dentition and an attachment device based on the combined digital model.

6. A method as in claim 5, wherein manufacturing comprises producing a positive mold based on the combined data and fabricating the polymeric shell over the mold.

7. A method as in claim 1, wherein providing a digital model of the attachment device comprises selecting the digital model of the attachment from a library of such attachments.

8. A method for fabricating a dental appliance, comprising:

providing a digital model of a patient's dentition;

providing a digital model of an attachment device;

combining the digital model of the attachment device on the digital model of the patient's dentition; and

from the combined digital model, fabricating the dental appliance having a receptacle adapted to engage the attachment device when the appliance is worn by the patient.

9. A method as in claim 8, wherein providing a digital model of the patient's dentition comprises scanning the patient's teeth.

10. A method as in claim 8, wherein providing a digital model of the patient's dentition comprises scanning a mold of the patient's teeth.

11. A method as in claim 8, further comprising modifying the digital model of the patient's dentition prior to combining the modified digital dentition model with the digital model of the attachment device.

12. A method as in claim 8, wherein fabricating comprises producing a positive mold based on the combined data and molding the polymeric shell over the mold.

13. A method as in claim 8, wherein providing a digital model of the attachment device comprises selecting the digital model of the attachment from a library of such attachments.

14. Dental appliances produced by the methods of claims 1 or 8.